Interponal Application No PCT/IB2004/004413

		rci/18	2004/004413
A. CLASSIF	C12Q1/68		
110 /	01241/00		
	International Patent Classification (IPC) or to both national classification	ation and IPC	
B. FIELDS	SEARCHED cumentation searched (classification system followed by classificat	ion symbols)	
IPC 7	C12Q		
Documentati	on searched other than minimum documentation to the extent that	such documents are included in the fie	elds searched
Electronic da	ata base consulted during the International search (name of data ba	ase and, where practical, search terms	s used)
	ternal, BIOSIS, WPI Data, PAJ, Sequ		
LIO IIII	ocinal, brooto, wit baca, inc, sequ	ondo deal off	
	ENTS CONSIDERED TO BE RELEVANT	Javost sessons-	Deleverate de la constitución de
Category °	Citation of document, with indication, where appropriate, of the re	nevant passages	Relevant to claim No.
χ	DELASSUS S ET AL: "PCR-based an	alveis of	1,2,4,24
^	the murine immunoglobulin heavy-		1,4,7,44
	repertoire"		
	JOURNAL OF IMMUNOLOGICAL METHODS		
	SCIENCE PUBLISHERS B.V.,AMSTERDA vol. 184, no. 2,	II, NL,	
	18 August 1995 (1995-08-18), pag	es	
	219-229, XP004020989	~	
Υ	ISSN: 0022-1759 the whole document		3,5-23,
'	the witote document		26-54
		,	
1		-/	Ì
	Lead designants are listed in the activities of her O	Dotont formille months	listed in appay
X Furth	ner documents are listed in the continuation of box C.	Patent family members are	iisteu III diiliex.
° Special ca	tegories of cited documents:	"T" later document published after the	ne International filing date
"A" docume consid	ent defining the general state of the art which is not lered to be of particular relevance	or priority date and not in confil cited to understand the principle invention	
	document but published on or after the International	"X" document of particular relevance	
"L" docume	nate that the state of the stat	cannot be considered novel or involve an inventive step when	the document is taken alone .
citation	n or other special reason (as specified)	"Y" document of particular relevance cannot be considered to involve	an inventive step when the
other i	ent referring to an oral disclosure, use, exhibition or means	document is combined with one ments, such combination being in the art	
"P" docume later ti	ent published prior to the international filing date but nan the priority date claimed	in the art. *&" document member of the same	patent family
Date of the	actual completion of the international search	Date of mailing of the internation	nal search report
_	F A	10/05/0005	
2	5 April 2005	10/05/2005	
Name and r	nailing address of the ISA	Authorized officer	
]	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tol (231 70) 240 2000 Tv 21 651 200 pl		
j	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Botz, J	

Intermonal Application No PCT/IB2004/004413

(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
	FEUCHTENBERGER M ET AL: "Semiquantitative and qualitative assessment of B-lymphocyte VH repertoire by a fluorescent multiplex PCR" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 276, no. 1-2, 1 May 2003 (2003-05-01), pages 121-127, XP004422646	1,2,4,24			
•	ISSN: 0022-1759 the whole document	3,5-23, 26-54			
Υ	LIM A ET AL: "Combination of MHC-peptide multimer-based T cell sorting with the Immunoscope permits sensitive ex vivo quantitation and follow-up of human CD8<+> T cell immune responses" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 261, no. 1-2, 1 March 2002 (2002-03-01), pages 177-194, XP004341278 ISSN: 0022-1759 the whole document	1-54			
Y	COLLETTE A ET AL: "New methods and software tools for high throughput CDR3 spectratyping. Application to T lymphocyte repertoire modifications during experimental malaria" JOURNAL OF IMMUNOLOGICAL METHODS, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 278, no. 1-2, July 2003 (2003-07), pages 105-116, XP004453168 ISSN: 0022-1759 the whole document	1-54			
Y	PANNETIER C ET AL: "THE SIZES OF THE CDR3 HYPERVARIABLE REGIONS OF THE MURINE T-CELL RECEPTOR BETA CHAINS VARY AS A FUNCTION OF THE RECOMBINED GERM-LINE SEGMENTS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 90, May 1993 (1993-05), pages 4319-4323, XP002951502 ISSN: 0027-8424 cited in the application the whole document -/	1-54			

Interponal Application No
PCT/IB2004/004413

	TO THE CONCINCION TO BE DELEVANT	TCT/1B2004/004413
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the release	
Y	ARSTILA T PETTERI ET AL: "A direct estimate of the human alphabeta T cell receptor diversity" SCIENCE (WASHINGTON D C), vol. 286, no. 5441, 29 October 1999 (1999-10-29), pages 958-961, XP001191021 ISSN: 0036-8075 cited in the application the whole document	1-54
Υ	LEFRANC M P: "IMGT, the international ImMunoGeneTics database." NUCLEIC ACIDS RESEARCH. 1 JAN 2001, vol. 29, no. 1, 1 January 2001 (2001-01-01), pages 207-209, XP002281078 ISSN: 1362-4962 cited in the application the whole document	1-54
Y	DATABASE EBI 'Online! EMBL; Sequence 56 from US6300129 16 September 2003 (2003-09-16), LONBERG, N., KAY, R.M.: XP002281108 retrieved from EMBL accession no. AR369855 Database accession no. AR369855 the whole document	1-54
Y	DATABASE EBI EMBL; Sequence 7 from W00175091 29 October 2001 (2001-10-29), OHLIN, M. ET AL.: XP002281109 retrieved from EMBL accession no. AX268890 Database accession no. AX268890 the whole document & W0 01/75091 A (BIOINVENT INTERNAT AB; CARLSSON ROLAND (SE); OHLIN MATS (SE); SODERLI) 11 October 2001 (2001-10-11)	1-54
Y	DATABASE EBI EMBL; Sequence 18 from W00175091 29 October 2001 (2001-10-29), OHLIN, M. ET AL.: XP002281110 retrieved from EMBL accession no. AX268901 Database accession no. AX268901 the whole document & W0 01/75091 A (BIOINVENT INTERNAT AB; CARLSSON ROLAND (SE); OHLIN MATS (SE); SODERLI) 11 October 2001 (2001-10-11)	1-54

Intermental Application No PCT/IB2004/004413

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to cla					
Category °	Citation of document, with indication, where appropriate, or the relevant passages	. Iooran to olam No.			
Y	DATABASE EBI EMBL; Sequence 21 of US6005091 13 September 2000 (2000-09-13), BLACKBURN M. NEAL ET AL.: XP002281111 retrieved from EMBL accession no. AR096134 Database accession no. AR096134 the whole document	1-54			
Y	DATABASE EBI EMBL; Sequence 146 from US6300129 16 September 2003 (2003-09-16), LONBERG, N. ET AL.: XP002281112 retrieved from EMBL accession no. AR369914 Database accession no. AR369914 the whole document	1-54			
Y	DATABASE EBI EMBL; Sequence 350 from US6300129 16 September 2003 (2003-09-16), LONBERG N. ET AL.: XP002281113 retrieved from EMBL accession no. AR370100 Database accession no. AR370100 the whole document	1-54			
Υ .	DATABASE EBI EMBL; Sequence 2 from US2002168397 11 April 2003 (2003-04-11), TSUJI, K. ET AL.: XP002281114 retrieved from EMBL accession no. AR264699 Database accession no. AR264699 the whole document	1-54			
Y	DATABASE EBI EMBL; Sequence 4 from W08803145 16 February 1995 (1995-02-16), LIU, A.Y. ET AL.: XP002281115 retrieved from EMBL accession no. I05932 Database accession no. I05932 the whole document & WO 88/03145 A (ONCOGEN; INT GENETIC ENG (US)) 5 May 1988 (1988-05-05)	1-54			
Υ	DATABASE EBI EMBL; Sequence 10 from W00213862 9 August 2002 (2002-08-09), GOLD, D.P. ET AL.: XP002281116 retrieved from EMBL accession no. AX473360 Database accession no. AX473360 the whole document -/	1-54			

Interional Application No PCT/IB2004/004413

C (C==::=:	(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
	& WO 02/13862 A (GOLD DANIEL P; FAVRILLE INC (US); SHOPES ROBERT J (US)) 21 February 2002 (2002-02-21)					
Y	DATABASE EBI EMBL; Sequence 36 from W09915696 26 January 2000 (2000-01-26), QIN, Y.: XP002281117 retrieved from EMBL accession no. A97536 Database accession no. A97536 the whole document & W0 99/15696 A (QIN YUFEN) 1 April 1999 (1999-04-01)	1-54				
Υ	DATABASE EBI EMBL; JH reporter probe from WO9219775 24 November 1994 (1994-11-24), XP002281118 retrieved from EMBL accession no. A22452 Database accession no. A22452 the whole document & WO 92/19775 A (RAGGIO ITALGENE SPA) 12 November 1992 (1992-11-12)	1-54				
Y	DATABASE EMBL 'Online! 21 December 2002 (2002-12-21), "Sequence 36 from patent US 6476198." XP002325887 retrieved from EBI accession no. EM_PRO:AR243947 Database accession no. AR243947 the whole document & US 6 476 198 B1 (KANG ANGRAY SINGH) 5 November 2002 (2002-11-05) the whole document	1-54				
Y	DATABASE EMBL 'Online! 13 August 2003 (2003-08-13), "Novel Fab fragment libraries and method of using the same." XP002325888 retrieved from EBI accession no. EM_PAT:BD271410 Database accession no. BD271410 the whole document & EP 1 054 018 A (TARGET QUEST B.V) 22 November 2000 (2000-11-22) -/	1-54				

Interional Application No PCT/IB2004/004413

		101/182004/004413		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	ricievalit to ordiniya.		
Υ	DATABASE EMBL 'Online! 25 November 2003 (2003-11-25), "Sequence 121 from Patent W003059951." XP002325889 retrieved from EBI accession no. EM_PAT:AX805724 Database accession no. AX805724 the whole document	1-54		
Y	DATABASE EMBL 'Online! 9 August 1999 (1999-08-09), "PCR primer for human immunoglobulin C alpha gene." XP002325890 retrieved from EBI accession no. EM_PAT:E16974 Database accession no. E16974 the whole document	1-54		
A	WHITE HARRY N: "Restriction-PCR fingerprinting of the immunoglobulin VH repertoire: Direct detection of an immune response and global analysis of B cell clonality" EUROPEAN JOURNAL OF IMMUNOLOGY, vol. 28, no. 10, October 1998 (1998-10), pages 3268-3279, XP002281079 ISSN: 0014-2980 the whole document	1-54		

Information on patent family members

Interional Application No
PCT/IB2004/004413

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0175091	A	11-10-2001	AT AU CA DE WO EP JP NO	269900 T 5225301 A 2402240 A1 60103988 D1 0175091 A2 1268801 A2 2003529368 T 20024723 A	15-07-2004 15-10-2001 11-10-2001 29-07-2004 11-10-2001 02-01-2003 07-10-2003 02-12-2002
WO 8803145	A .	05-05-1988	AT AU AU DE DE DE ES FI GHUE JP NZ OA PT US ZA	117370 T 656633 B2 2810592 A 626254 B2 8326187 A 3751004 D1 3751004 T2 354288 A 0266663 A1 2069527 T3 891984 A 3015810 T3 52153 A2 62304 B1 84285 A 2501886 T 222309 A 9115 A 85995 A ,B 8803145 A1 5354847 A 8708044 A	15-02-1995 09-02-1995 28-01-1993 30-07-1992 25-05-1988 02-03-1995 24-05-1995 27-06-1988 11-05-1988 16-05-1995 26-04-1989 31-07-1995 28-06-1990 25-01-1995 15-03-1993 28-06-1990 26-02-1990 31-10-1991 01-11-1987 05-05-1988 11-10-1994 25-04-1988
WO 0213862	Α .	21-02-2002	AU CA CN CN EP JP JP WO US	1121402 A 8330401 A 2416794 A1 2416898 A1 1468123 A 1468124 A 1309373 A2 1309347 A2 2004506021 T 2004506022 T 0213861 A2 0213862 A2 2003082178 A1 2003012782 A1	25-02-2002 25-02-2002 21-02-2002 21-02-2002 14-01-2004 14-05-2003 14-05-2003 26-02-2004 26-02-2004 21-02-2002 21-02-2002 01-05-2003 16-01-2003
WO 9915696	A	01-04-1999	CA CA AU CA WO EP	2216595 A1 2220245 A1 9148498 A 2303978 A1 9915696 A1 1015633 A1	19-03-1999 04-05-1999 12-04-1999 01-04-1999 01-04-1999 05-07-2000
WO 9219775	A	12-11-1992	IT AU AU CA	1244983 B 666648 B2 1649992 A 2109518 A1	13-09-1994 22-02-1996 21-12-1992 30-10-1992

unormation on patern raining members

Intermonal Application No
PCT/IB2004/004413

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9219775	A		WO EP JP	9219775 A1 0583284 A1 6509464 T	12-11-1992 23-02-1994 27-10-1994
US 6476198	B1	05-11-2002	AU WO	6340996 A 9701580 A1	30-01-1997 16-01-1997
EP 1054018	A	22-11-2000	EP AU AU CA JP WO US	1054018 A1 780145 B2 5142200 A 2372582 A1 2002543830 T 0070023 A1 2002102613 A1	22-11-2000 03-03-2005 05-12-2000 23-11-2000 24-12-2002 23-11-2000 01-08-2002